## WHAT IS CLAIMED IS:

l	1. A computer-implemented method for analyzing user search queries, the				
2	method comprising the acts of:				
3	grouping a set of previous queries into a plurality of subsets along a dimension;				
4	for each of the subsets of the previous queries, generating a concept network, each				
5	concept network including a plurality of units and a plurality of relationships defined between				
5	the units, wherein each unit of each concept network has a frequency weight;				
7	selecting one of the units; and				
3	constructing a histogram vector for the selected unit, the histogram vector having				
9	an element corresponding to each of the concept networks, wherein each element of the				
)	histogram vector has a value representative of the frequency weight of the selected unit in the				
1	corresponding one of the concept networks.				
1	2. The method of claim 1, wherein the dimension is a time dimension.				
l	3. The method of claim 1, wherein the dimension is defined by reference to				
2	one or more demographic characteristics of users.				
1	4. The method of claim 1, wherein the dimension is a geographic dimension.				
1	5. The method of claim 1, wherein the dimension is a vertical dimension				
2	representing a user context of the query.				
1	6. The method of claim 1, further comprising the act of storing the selected				
2	unit in a unit dictionary in association with the histogram vector.				
1	7. The method of claim 6, further comprising the acts of:				
2	receiving a subsequent query;				
3	parsing the subsequent query into one or more constituent units;				
4	obtaining the histogram vector for at least one of the constituent units from the				
5	unit dictionary; and				
5	responding to the subsequent query based at least in part on the histogram vector.				

1		8.	The method of claim 7, wherein the act of responding includes suggesting	
2	a related search based at least in part on the histogram vector.			
1		9.	The method of claim 7, wherein the act of responding includes resolving	
2	an ambiguity	of one o	of the constituent units based at least in part on the histogram vector.	
1		10.	The method of claim 6, further comprising the acts of:	
2		identif	ying a group of units that have similar histogram vectors; and	
3		storing	g group membership information for the units of the group in the unit	
4	dictionary.			
1		11.	The method of claim 6, further comprising the acts of:	
2		selecti	ng a base unit from the unit dictionary;	
3		identif	ying a plurality of related units for the base unit in the unit dictionary;	
4	determining a most common histogram vector among the related units; and			
5	• .	storing the most common histogram vector in the unit dictionary as a proxy		
6	histogram vec	tor for t	the base unit.	
1		12.	The method of claim 11, wherein the related units include extensions of	
2	the base unit.			
1		13.	The method of claim 1, wherein each element of the histogram vector has	
2	a binary value indicating a presence or absence of the target unit in the corresponding concept			
3	network.			
1		14.	The method of claim 1, further comprising the act of normalizing each of	
2	the histogram	vectors		
1		15.	A system for processing queries, the system comprising:	
2		a conc	ept network builder module configured to receive a set of previous user	
3	queries and to generate a concept network therefrom, the concept network including a plurality			
4	of units and a plurality of relationships defined between the units, wherein each unit of the			
5	concept network has a frequency weight; and			

a histogram builder module configured to receive a plurality of concept networks generated by the concept network builder from different sets of previous user queries and further configured to select one of the units and to generate a histogram vector for the selected unit, wherein the histogram vector has an element corresponding to each of the concept networks, wherein each element of the histogram vector has a value representative of the frequency weight of the unit in the corresponding one of the concept networks.

- 16. The system of claim 15, further comprising a unit dictionary configured to store the selected unit in association with the histogram vector generated for the selected unit by the histogram builder module.
- 17. The system of claim 16, further comprising a histogram analysis module configured to obtain units and the histogram vectors for those units from the unit dictionary and to detect a pattern of the histogram vectors.
- 18. The system of claim 17, wherein the histogram analysis module is further configured to select a plurality of units from the unit dictionary, to sort the selected units based on the histogram vectors, and to define a group of units that have similar histogram vectors.
- 19. The system of claim 17, wherein the histogram analysis module is further configured to select a base unit from the unit dictionary, to identify a plurality of related units for the base unit in the unit dictionary, to determine a most common histogram vector among the related units, and to store the most common histogram vector in the unit dictionary as a proxy histogram vector for the base unit.
- 20. The system of claim 16, further comprising a query response module configured to receive a subsequent query including one or more constituent units and to respond to the subsequent query based at least in part on a histogram vector stored in the unit dictionary for at least one of the constituent units.
- 21. A computer program product comprising a computer readable medium encoded with program code, the program code including:
- program code for grouping a set of previous queries into a plurality of subsets along a dimension;

.5	program code for generating a concept network for each of the subsets of the			
6.	previous queries, each concept network including a plurality of units and a plurality of			
. 7	relationships defined between the units, wherein each unit of each concept network has a			
8	frequency weight;			
9	program code for selecting one of the units; and			
10	program code for constructing a histogram vector for the selected unit, the			
11	histogram vector having an element corresponding to each of the concept networks, wherein			
12	each element of the histogram vector has a value representative of the frequency weight of the			
13	selected unit in one of the concept networks.			
1	22. The computer program product of claim 21, wherein the program code			
2	further includes program code for storing the selected unit in a unit dictionary in association with			
3	the histogram vector.			
1	23. The computer program product of claim 21, wherein the program code			
2	further includes:			
3	program code for receiving a subsequent query;			
4	program code for parsing the subsequent query into one or more constituent units			
5	program code for obtaining the histogram vector for at least one of the constituent			
6	units from the unit dictionary; and			
7	program code for responding to the subsequent query based at least in part on the			
R	histogram vector			